



Fuel Cell Test Station PTS-500

Key features

Suitable for low-temperature PEM fuel cells

Automatic control of flow rate, humidity, temperature and back pressure

Variety of water-cooled or regenerative electronic loads

Stack temperature control with liquid cooling

Robust system based on industrial PLC with data logging into SQL database

Safety features for fully automated operation

Testing of short or full stacks
10 - 50 kW

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Specifications

Power Range:

10 - 50 kW

Fuel Flow-Rate Range:

25 - 1250 slpm

Dew-Point Temperature Range:

up to 90 °C

Options:

Stack pre-heating, dead-end mode

Max. current:

1200 A

Oxidant Flow-Rate Range:

90 - 4500 slpm

Gas Pre-Heating Temperature Range:

up to 120 °C

Back-Pressure Control Range:

up to 3 bar(g)

Cell Voltage Monitoring:

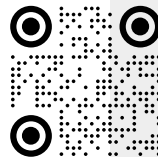
Customizable number of channels

Liquid cooling of cell/stack:

up to 95 °C

Applications

Ideally suited for verification of stack design on short-stack level or scale up to full-stack level. Well-defined and repeatable conditions of Leancat PTS-500 enable benchmarking of fuel cells also thanks to extensive scripting possibilities.



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